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One hundred and thirty-one letters have been written during the year to editors and societies, asking for a supply of such parts and volumes as were necessary to complete the Academy's set of their publications. In several cases the parts asked for have been received already, and a large number of favorable answers may be confidently expected during the coming spring.

All of which is respectfully submitted,

EDWARD J. NOLAN, *Librarian*.

REPORT OF THE CURATORS.

Little has been done during the past year in the arrangement of the Museum of the Academy. Mr. Charles E. Parker, one of the Curators, went over the alcoholic specimens, renewing the alcohol, and otherwise securing their preservation.

The contributions to the Museum during the year are as follows:—

Mammals.—A Bat from Fort Randall, Dakota, presented by Dr. W. T. Thackeray, U.S. A.; a Flying Squirrel from Texas, by S. B. Buckley; a large variety of the Cat, by A. G. B. Hinkle; a monstrous Pig, by W. Cox; the skin of an Ant-eater, by an unknown donor.

Dr. A. M. Owen U.S.N., presented five human skulls from the Fiji, Marquesas, and Sandwich Islands.

Skeletons of a *Cavia* and a Muskrat were presented by Jacob Geismar.

Birds.—Nineteen specimens, thirteen species of bird skins were presented by a unknown donor. A small collection of bird skins, from Nicaragua, was presented by Dr. John F. Bransford, U. S. N.

A collection of North American birds' eggs, 147 specimens of 74 species, was presented by Mr. E. Dickenson, of Springfield, Mass. A collection of 69 species of birds' eggs and nests was presented by the Smithsonian Institution.

Jacob Geismar presented the skeleton of the Great-horned Owl, and the skull of a Turkey.

Reptiles, Amphibians, and Fishes.—Seven serpents from the Marquesas, South Sea Islands, and Australia, were presented by Dr. A. M. Owen, U. S. N. Two Lizards from Armenia were presented by Rev. G. W. Coan, D.D. A large jar of South American

Reptiles was presented by an unknown donor. An *Amblystoma*, from Dakota, was presented by W. T. Thackeray.

Six specimens of a viviparous fish from California were presented by Major F. G. Smith; four species of fishes from San Domingo were presented by Wm. M. Gabb; and a File-fish from Atlantic City was presented by Joseph Wilcox.

General Collections.—A large and miscellaneous collection of fishes, mollusks, insects, crustaceans, echinoderms, etc., from the Pacific Coast of America and Islands, was presented by Dr. Wm. H. Jones, U. S. N.

A collection in nine jars, of reptiles, fishes, mollusks, insects, myriapods, radiates, etc., from Nicaragua, was presented by Dr. John F. Bransford, U. S. N.; six vials of insects, from South America, were presented by an unknown donor; a collection of 34 alcoholic specimens of pelagic mollusks, bryozoa, crustaceans, etc., was presented by Capt. John H. Mortimer.

Mollusks.—A *Pholas* in bored rock, from Torbay, England, was presented by Mr. Browse. A *Boltenia*, from Maine, was presented by W. L. Mactier; specimens of *Pecten Magellanicus*, from Connecticut, by Dr. Leidy; and six species of South American land shells, by an unknown donor.

For other contributions in this department, see the Report of the Conservator of the Conchological Section.

Articulates.—Six vials of South American insects were presented by an unknown donor. A small collection of insects and spiders, in alcohol, from Fort Randall, Dakota, was presented by Dr. W. T. Thackeray, U. S. A.

Two species of *Pagurus*, from Connecticut, were presented by Dr. Leidy, and a *Scolopendra*, and a *Tarantula*, from the West Indies, by Dr. John L. Le Conte.

Radiates and Protozoa.—Two species of *Echini*, from Connecticut, were presented by S. F. Clark; two species of *Asterias*, from the same place, by Dr. Leidy; an *Actinia*, and a *Holothuria*, from Maine, by Wm. L. Mactier; and a Coral, from the Sandwich Islands, by Dr. Thomas H. Streets.

Sixteen species of Sponges, from the Cuyades Islands, were purchased.

Fossils.—A collection of cretaceous fossils, consisting of *Inoceramus*, *Baculites*, other molluscan remains, remains of fishes, etc., from several localities in Dakota, and also a collection of rocks

and tertiary fossils, mainly consisting of remains of *Titanotherium Proutii*, and *Stylemys Nebrascensis*, from near Red Cloud Agency, Nebraska, was presented by Lieut. E. Crawford, U. S. A.

Fourteen cretaceous fossils, from Texas, were presented by Dr. A. H. Graham. Three cretaceous vertebrate fossils, from New Jersey, were presented by W. H. Dougherty. A small collection of eocene fossils, consisting of remains of fishes, shells, etc., from Vincentown, N. J., was presented by Col. T. M. Bryan. A molar tooth of a Mastodon, from the same neighborhood, was presented by the same gentleman. A collection of post-tertiary fossil shells, from Hennepin Co., Minn., was presented by Mr. Thomas T. Smith.

A large slab of red sandstone with foot-tracks, and a fragment of a fossil tree, from Portland, Conn., were presented by William Struthers. A slab of sandstone with fucoid remains, from Dauphin Co., Pa., was presented by Allen Walton.

Plants.—A collection of Californian and East Indian plants, and one of Anderson's Willows, were presented by Prof. Asa Gray.

A collection of Palmer's plants of Arizona and Southern California was presented by the U. S. Department of Agriculture. A collection of plants of Colorado and Wyoming, made by Messrs. Coulter, Brandajee, and Poulter, was presented by Prof. Thomas C. Porter.

Fifteen species of Arctic plants, from the voyage of the *Polaris*, were presented by Dr. E. Bessels.

Eighty-six Californian plants were presented by Miss S. P. Monks; 8 species of Brazilian ferns, by Mr. J. H. Redfield; and 1 species of a Californian plant, by Rachel L. Bodley.

Minerals.—Specimens of Quartz, Topaz, Feldspar, Cyanite, Hisingerite, Tourmaline, Pyrite, 3 Scapolites, 2 Tremolites, Staurolite, Stilbite, and Calcite, were presented by Mr. Joseph Jeanes.

Specimens of Amethyst, Oligoclase, Tetrahedral Blende, Biotite, Analcime, Stilbite, Mesolite, Acadialite, Corundum and Spinel, and Staurolite, were presented by Joseph Wilcox.

Specimens of Cacoixene, Emplectite, Scapolite, and Staurolite, were presented by Clarence S. Bement.

Other specimens presented are as follow: Seven polished Marbles, by Geo. W. Thompson; 2 Wulfenites, from Nevada, by Jas. P. Carson; Amethyst, and Feldspar with Quartz, from Siberia, by Dr. J. H. Linn; a large Stalactite, from Crystal Cave, Berks Co.,

by Mr. S. D. F. Kohler; Amber, from New Jersey, by Dr. H. O. Hyatt; do., by Col. T. M. Bryan; Salt, by H. T. Darlington; Breunerite, by C. F. Parker; Livingstonite, from Mexico, by Sr. Mariano Barcena; and Limonite, Analcime, Stilbite, Heulandite, and Cacholong, by Dr. Leidy.

The collection of Minerals of the late Dr. Adam Seybert has been deposited in the Academy by Mr. Henry Seybert.

Respectfully submitted by

JOSEPH LEIDY,
Chairman of Curators.

REPORT OF RECORDER OF BIOLOGICAL AND MICROSCOPICAL SECTION.

December 7th, 1874.

In reviewing the events of our microscopical year, I think we may find just cause for mutual congratulation, in the fact, that although the number of original papers presented before the Section has been less than on some previous occasions, yet we have in the past twelve months done more than almost ever before, to popularize a knowledge of the wonders of microscopic investigation, to interest the community in our special branch of natural science, and to convince the citizens of Philadelphia that we form a *living active* department, of an Association well worthy of more general encouragement, as well as of more bountiful pecuniary aid.

These important objects have of course been chiefly advanced by the successful management of our two semi-annual Exhibitions, the latter, and more satisfactory of which, was contributed to by eminent microscopists of New York and Boston, as well as of Philadelphia, and was witnessed by nearly one thousand of our citizens. "The microscopes" (to quote from the report of Dr. J. H. McQuillen, Chairman of the Committee), "forty in number, were arranged on tables in three rooms of the library, and the principal, if not the only drawback of the exhibition, was the contracted space and the impossibility of properly accommodating the large number of persons present."

During the year original communications were presented by Dr. James Tyson, "On a Set of Barth's Classified Specimens in Pathological Anatomy," by Dr. J. Gibbons Hunt, on his novel and